

Digital Findings

- Withheld Devices and Data
- Cyber Security Issues
- Hardware Configuration Control
- File Deletions
- Failure to Preserve Election Artifacts
- Anonymous Logins
- Listening Ports and Attempted Connections on Bootup
- Internet Connections and History

Withheld Devices and Data

- Routers and Network Related Data
- Poll Worker Laptops
- ICX Devices
- ICP Credentials to Validate Configuration Settings or Administrative Settings
- Other Devices Connected to Election Network
 - 192.168.100.1
 - 192.168.100.11

Cyber Security Issues

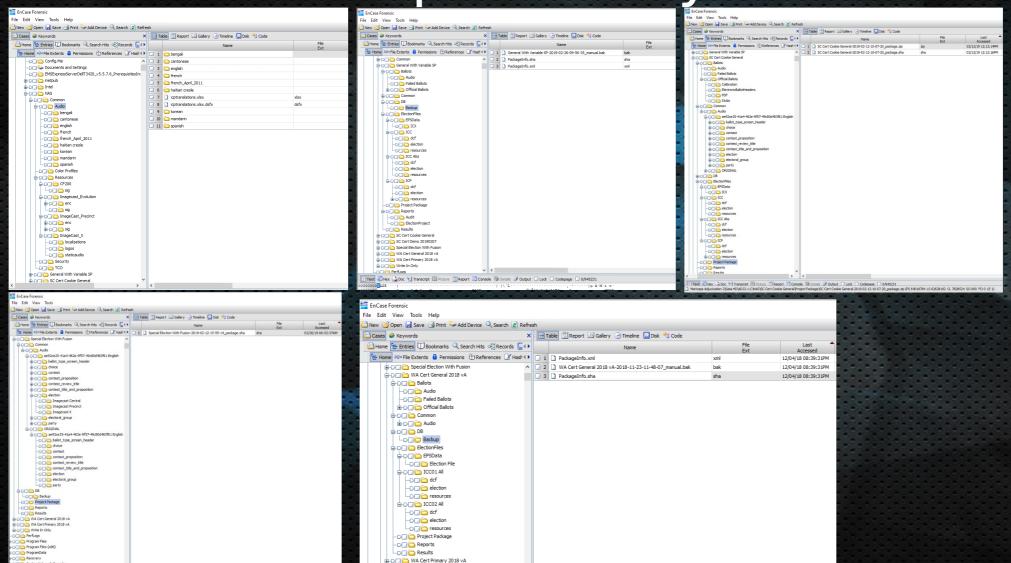
- Failed to Perform Basic OS Patch Management
- Failed to Update AntiVirus Definitions
- EAC Certification Defense is NOT Valid In View of the Evidence
 - 4 .exe Files Created After Dominion Software Install
 - 45 .exe Files Modified After Dominion Software Install
 - 377 .dll Files Created After Dominion Software Install
 - 1053 .dll Files Modified After Dominion Software Install
- Log Management Failed to Preserve Security Logs
- Credential Management Shared Accounts and Common Passwords
- Failed to Establish and Monitor Host Baseline

Hardware Configuration Issues

- Dual Boot Configuration
 Discovered on Adjudication 02
 Endpoint
 - Two Hard Drives Internal to System
 - Both Drives Bootable to Different Configurations
- Clearly Not an Approved Configuration
- 2nd Hard Drive Contained Non-Maricopa County Data

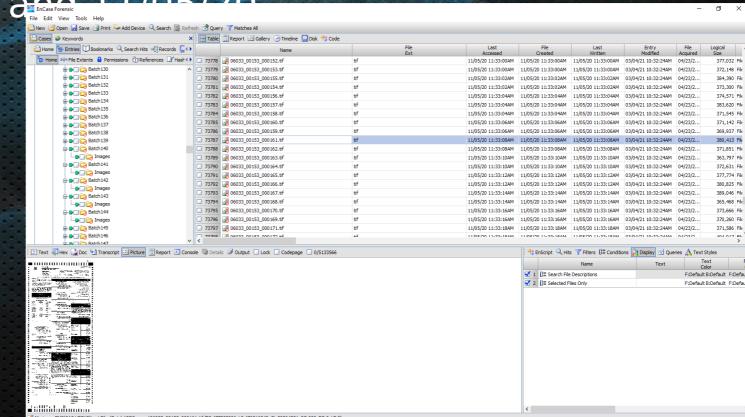


Non-Maricopa County Data



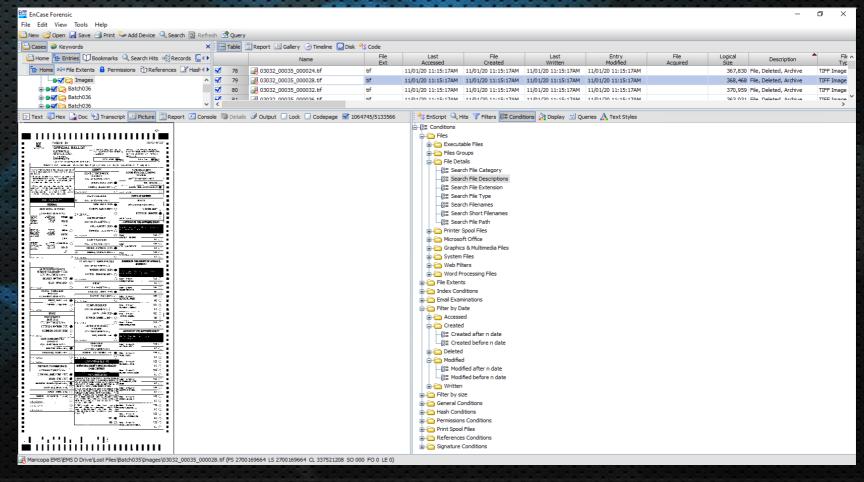
File Deletions From EMS C:\ Drive

• 865 directories and 85,673 Election Related Files (scanned ballots, .dvd files, slog.txt files, etc) Deleted Between 10/28/20 and 11/05/20



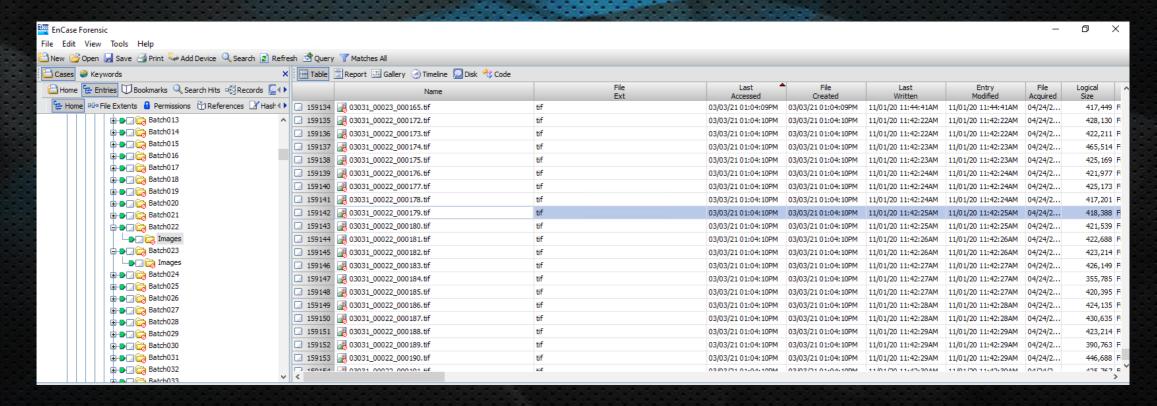
File Deletions EMS D:\ Drive

9,571 Directories and 1,064,746 Election Related Files
 Were Deleted Between 11/01/20 and 03/16/21



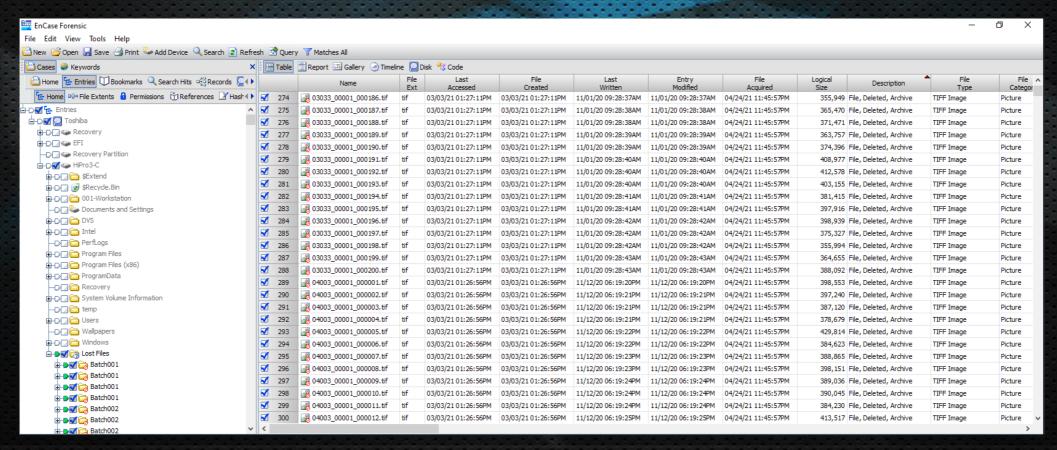
Deleted Files - HiPro 1

304 Directories and 59,387 Files Containing Election
 Data Deleted From the HiPro Scanner 1 on 3 March 2021



Deleted Files - HiPro 3

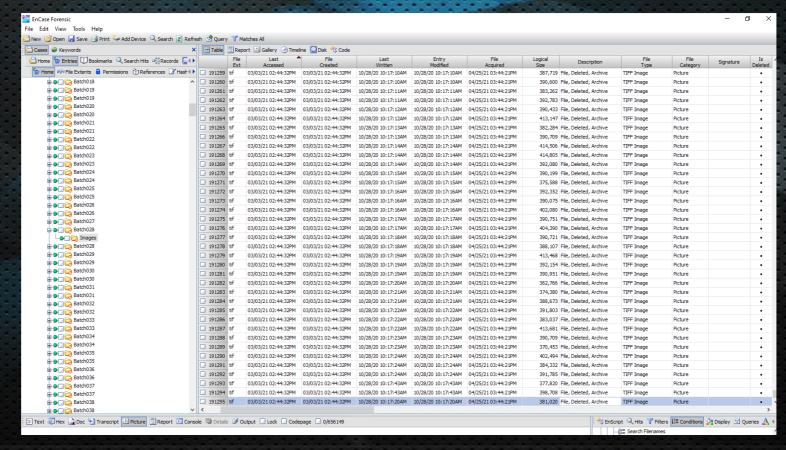
 1,016 Directories and 196,463 Files Containing Election Data Deleted From the HiPro Scanner 3 on 3 March 2021





Deleted Files - HiPro 4

981 Directories and 191,295 Files Containing Election
 Data Deleted From the HiPro Scanner 4 on 3 March 2021



Failure to Preserve Operating System Logs

- System Logs
 Logs Produced by Maricopa County Did Not Contain the Windows Security Logs
- Security Logs Set to Maintain 20MB of Data
- Oldest Date in Windows Security Log on EMS was 2/5/21
 - Did not Cover Election Time Period
- Clear Intentional Overwriting of the Security Logs by the EMSADMIN Account
 - 2/11/2021 462 Log Entries Overwritten
 - 3/3/2021 37,686 Log Entries Overwritten
 - 4/12/2021 330 Log Entries Overwritten

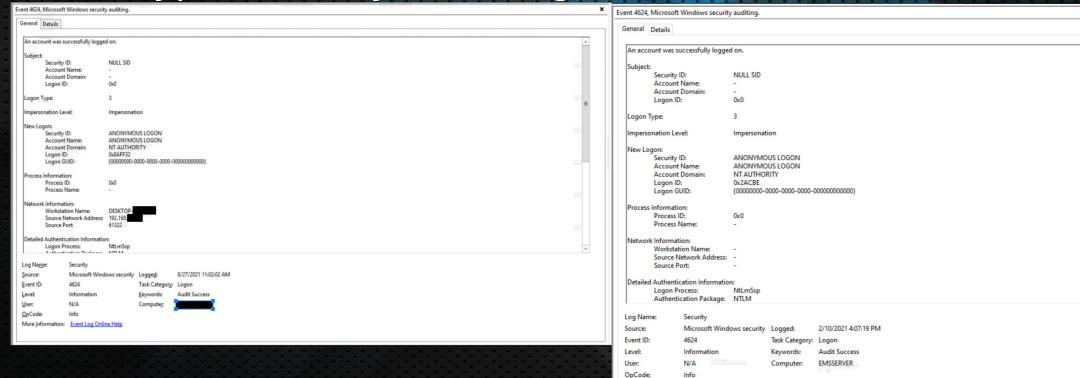
Arizona Senate Audit General Election Results Purged from EMS

- 2/1/2021 SQL Logs Indicate That the RTRAdmin Account Purged the General Election Results from the Database
- Windows Access Logs Don't have a Corresponding Entry

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2	4DA1500D-7B7D-4437-88EC-492C79DAF75B	Admin	User initiates the Close Project activity	LD01		2021-01-21 09:22:47.563
2	76B314A4-600D-4F8C-AF5D-818D448F5203	RTRAdmin	Project 20201103 General opened	LD01		2021-02-01 17:14:21.550
2	AB0EF054-F8C5-4217-A0B4-5BC20566F1AE	RTRAdmin	User initiates the Result Files activity	LD01		2021-02-01 17:14:21.567
2	36615BC3-F4F9-4E6D-92A0-560C2DCF645F	RTRAdmin	User initiates the OnPurgeResults activity	LD01		2021-02-01 17:14:47,363
2	D839A42C-16A2-47C7-8066-CAA584EBB531	RTRAdmin	User initiates generation of password.	LD01		2021-02-01 17:15:01.160
2	EDAC3600-0978-4EED-82FA-447F8858B793	RTRAdmin	PurgeResultsCommand (execution duration: 76478ms):All result files from database were deleted.	LD01	NULL	2021-02-01 17:16:27.810
2	39B7BDFD-BE64-4501-9BFF-CCCECFF9E2A0	RTRAdmin	PurgeResultsCommand (execution duration: 288779ms): The result files database, result files and images from NAS were deleted. Purging of results has finished successfully.	LD01	NULL	2021-02-01 17:20:00.097
2	036292E2-0F66-4F30-9308-6E1D55377B97	RTRAdmin	User initiates the Election Summary Report activity	LD01		2021-02-01 17:21:55.173

Anonymous Logins

- Some Anonymous Login Activity is Normal
- Atypical Anonymous Logins Were Discovered



More Information: Event Log Online Help

EMS Listening Ports

- Analysis Discovered 59 Ports That Were Open on the EMS Server at Boot
- Unexpected High Port Listening Activity by Standard Windows Processes (winit.exe, dns.exe, dhcpserver)
- IPV6 Enabled
- Terminal Services are Enabled
- Remote Access is Enabled

Arizona Senate Audit EMS Network Connection Attempts on Boot

Process Name	Process File Path	Process ID	Dest IP	Dest Port	Whois
system	system	4	192.168.100.1	445	N/A Local Lan
avastsvc.exe	c:\program files\avast software\ avast business\avastsvc.exe	320	23.194.212.49	80	Akamai
avastsvc.exe	c:\program files\avast software\ avast business\avastsvc.exe	320	23.194.212.56	80	Akamai
svchost.exe	c:\windows\system32\svchost.exe	988	8.252.68.126	80	Level 3 Parent, LLC
svchost.exe	c:\windows\system32\svchost.exe	988	72.21.81.240	80	Edgecast
svchost.exe	c:\windows\system32\svchost.exe	988	13.107.4.50	80	Microsoft
svchost.exe	c:\windows\system32\svchost.exe	988	23.194.212.104	80	Akamai
svchost.exe	c:\windows\system32\svchost.exe	988	8.240.49.254	80	Level 3 Parent, LLC
svchost.exe	c:\windows\system32\svchost.exe	988	8.252.36.126	80	Level 3 Parent, LLC
svchost.exe	c:\windows\system32\svchost.exe	1272	64.4.54.254	443	Microsoft
svchost.exe	c:\windows\system32\svchost.exe	1272	52.137.106.217	443	Microsoft
svchost.exe	c:\windows\system32\svchost.exe	1272	20.72.205.209	443	Microsoft
jusched.exe	c:\program files (x86)\common files\java\java update\jusched.exe	4680	184.86.196.202	443	Akamai
avastemupdate. exe	c:\program files\avast software\ avast business\ avastemupdate.exe	8092	104.99.72.230	80	Akamai

Internet History and Connections

- Both Maricopa County Audits did Not Find Any Internet History
- Significant Internet History Recovered from Unallocated Space
 - EMS Server
 - EMS Client Workstations
 - Adjudication Workstations
 - REWEB 1601
 - REGIS 1202

Arizona Senate Audit EMS Server

Date Visited [UTC]	Date Visited [Local]	Visits 9	URL	-0
2021-02-02 00:17:30.906	2021-02-01 17:17:30.906	1	https://az700632.vo.msecnd.net/pub/ExtMgr/CompatList/CompatibilityList.xml.errormarker	
2021-02-02 00: 17:33.935	2021-02-01 17:17:33.935	2	https://az700632.vo.msecnd.net/pub/ExtMgr/CompatList/CompatibilityList.xml.errormarker	

Arizona Senate Audit EMS Client 1

Date Visited [UTC]	Date Visited [Local]	Visits	٩	URL ↑	User
02/07/2020 20:02:19	02/07/2020 13:02:19		2	http://www.bing.com/search?q=192.138.100.11&src=IE-SearchBox&FORM=IE11SR&pc=EUPP_	
02/22/2021 23:08:13	02/22/2021 16:08:13		5	https://go.microsoft.com/fwlink/?LinkId=838604	emsadmin01
02/07/2020 20:00:53	02/07/2020 13:00:53		2	https://go.microsoft.com/fwlink/p/?LinkId=255141	emsadmin01

Date Visited [UTC]	Date Visited [Local]	Visits	URL	User
10/30/2019 17:00:49	10/30/2019 10:00:49	2	http://192.168.100.11/p_preference.html	emsadmin01
10/30/2019 17:00:54	10/30/2019 10:00:54	2	http://192.168.100.11/m_network.html	emsadmin01
10/30/2019 17:00:58	10/30/2019 10:00:58	2	http://192.168.100.11/m_network_tcpip.html	emsadmin01
10/30/2019 17:01:46	10/30/2019 10:01:46	2	http://192.168.100.11/m_system.html	emsadmin01
10/30/2019 17:01:50	10/30/2019 10:01:50	2	http://192.168.100.11/m_security.html	emsadmin01
10/30/2019 17:02:02	10/30/2019 10:02:02	2	http://192.168.100.11/m_network_ethernet.html	emsadmin01
10/30/2019 17:02:46	10/30/2019 10:02:46	2	http://192.168.100.11/m_network_ipv4.html	emsadmin01
10/30/2019 17:03:38	10/30/2019 10:03:38	2	http://192.168.100.11/m_network_snmp.html	emsadmin01
10/30/2019 17:03:46	10/30/2019 10:03:46	2	http://192.168.100.11/m_network_port.html	emsadmin01
10/30/2019 17:03:51	10/30/2019 10:03:51	2	http://192.168.100.11/m_network_port_edit.html	emsadmin01
10/30/2019 17:04:00	10/30/2019 10:04:00	2	http://192.168.100.11/m_network_starttime.html	emsadmin01
10/30/2019 17:04:21	10/30/2019 10:04:21	2	http://192.168.100.11/m_network_wirelesslan.html	emsadmin01

Arizona Senate Audit EMS Client 3

Date Visited [UTC]	Date Visited [Local]	Visits 9	URL P	User
08/06/2019 16:26:03	08/06/2019 09:26:03	2	http://192.168.100.11/portal_top.html	emsadmin01
08/06/2019 16:26:01	08/06/2019 09:26:01	2	http://192.168.100.11/	emsadmin01
08/06/2019 16:26:03	08/06/2019 09:26:03	2	http://192.168.100.11/portal_top.html	emsadmin01
08/06/2019 16:26:03	08/06/2019 09:26:03	2	http://192.168.100.11/portal_top.html	emsadmin01
08/06/2019 16:26:01	08/06/2019 09:26:01	2	http://192.168.100.11/	emsadmin01
08/06/2019 16:26:13	08/06/2019 09:26:13	3	http://192.168.100.11/	emsadmin01
08/06/2019 16:26:27	08/06/2019 09:26:27	3	http://192.168.100.11/checkLogin.cgi	emsadmin01
08/06/2019 16:26:27	08/06/2019 09:26:27	3	http://192.168.100.11/portal_top.html	emsadmin01
02/04/2021 00:36:19	02/03/2021 17:36:19	6	https://go.microsoft.com/fwlink/?LinkId=838604	emsadmin03

Arizona Senate Audit REWEB1601

Date Visited [UTC]	Date Visited [Local] ▼	[♥] Visi	sits 9	URL P	User
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://global.fncstatic.com/static/isa/core.js?v=20200116173547	
01/17/2020 17:16:09	01/17/2020 10:16:09		4	https://static.foxnews.com/static/orion/scripts/core/ag.core.js?v=20200116173547	
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://static.foxnews.com/static/orion/html/video/iframe/vod.html?v=20200116173547	
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://static.foxnews.com/static/orion/html/video/iframe/vod.html?v=20200116173547	serveradmin
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://static.foxnews.com/static/orion/styles/img/core/s/bg/close.svg	
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://static.foxnews.com/static/orion/scripts/core/components/loader.newsletter.xdcomm.js? v	
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/jquery.min.js	
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://ajax.googleapis.com/ajax/libs/jquery/1.11.2/jquery.min.js	
01/17/2020 17:16:09	01/17/2020 10:16:09		2	https://my.foxnews.com/js/bootstrap.js	
01/17/2020 17:16:08	01/17/2020 10:16:08		4	https://static.foxnews.com/static/orion/scripts/core/templates/ag.app.js? v=20200116173547	
01/17/2020 17:16:08	01/17/2020 10:16:08		2	https://static.foxnews.com/static/orion/scripts/core/ag.core.js	
01/17/2020 17:16:08	01/17/2020 10:16:08		2	https://static.foxnews.com/static/orion/scripts/core/templates/app/iframe.html?v=20200116173	
01/17/2020 17:16:08	01/17/2020 10:16:08		2	https://static.foxnews.com/static/orion/scripts/core/templates/app/iframe.html?v=20200116173	serveradmin

Arizona Senate Audit REGIS 1202

Date Visited [UTC]	Date Visited [Local] ▼ ⁹	Visits	T URL 9	User
11/25/2019 14:50:28	11/25/2019 07:50:28		3 https://156.42.40.59:1311/OMSALogin?msgStatus=null	serveradmin
11/25/2019 14:50:27	11/25/2019 07:50:27		https://156.42.40.59:1311/LoginServlet?flag=true&managedws=true	serveradmin
11/25/2019 14:49:58	11/25/2019 07:49:58		https://156.42.40.59:1311/OMSALogin?msgStatus=false&PasswordEmpty=false	serveradmin
11/25/2019 14:49:57	11/25/2019 07:49:57		https://156.42.40.59:1311/omalogin.html?msgStatus=false&manageDWS=true&PasswordEmpt	serveradmin
11/25/2019 14:48:37	11/25/2019 07:48:37		3 https://156.42.40.59:1311/OMSALogin	serveradmin
11/25/2019 14:48:29	11/25/2019 07:48:29		2 https://156.42.40.59:1311/oma/js/gnavbar.js	
11/25/2019 14:48:29	11/25/2019 07:48:29		https://156.42.40.59:1311/oma/js/Clarity.js	
11/25/2019 14:48:29	11/25/2019 07:48:29		3 https://156.42.40.59:1311/oma/js/prototype.js	
11/25/2019 14:48:29	11/25/2019 07:48:29		2 https://156.42.40.59:1311/oma/css/masthead.css	
11/25/2019 14:48:29	11/25/2019 07:48:29		2 https://156.42.40.59:1311/oma/css/common.css	
11/25/2019 14:48:29	11/25/2019 07:48:29		2 https://156.42.40.59:1311/oma/js/favicon.js	
11/25/2019 14:48:13	11/25/2019 07:48:13		2 https://156.42.40.59:1311/OMSALogin	serveradmin
11/25/2019 14:48:13	11/25/2019 07:48:13		2 https://156.42.40.59:1311/OMSALogin	serveradmin

Questions?